SERVICE PACK 2

SOMO® 655

Release Notes and Installation Guide

Version: 1.00.00 SP2 (build 10211)

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Other than the above, Socket Mobile can assume no responsibility for anything resulting from the application of information contained in this manual.

Please refrain from any applications of the SoMo 655 that are not described in this manual. Please refrain from disassembling the SoMo 655. Disassembly of this device will void the product warranty.

You can track new product releases, software updates and technical bulletins by visiting the Socket Mobile website at: www.socketmobile.com

Release Notes

1) Battery Monitoring and Charging:

a. Reduce power usage in deep sleep

b. Power switch handling improvements (Suspend/Resume)

c. Correct issue to preserve real time clock when battery swapped

2) Enhanced Wi-Fi Companion (e-WFC) Features:

a. Added the Roaming and Wi-Fi Region UI's

b. Channel 14 is displayed in regions where its use is supported.

c. Roaming among overlapping channels (other than 1, 6, and 11) is supported.

d. Roaming among multiple Hidden Networks is supported (controlled via Wi-Fi Region)

e. Connect to channels within European and Japanese regulatory domains.

f. SoMo should no longer freeze if user suspends SoMo immediately after applying power.

3) e-WFC CSP (Configuration Service Provider) Improvements:

a. “Profile add” behavior so that it no longer writes a blank profile to the system before writing the completed profile

b. Added support for the connection destination in the profile (Work or The Internet)

c. Added support for the Validate Server Certificate profile feature

d. Added support automatic profile order priority management

4) User Interface Improvements:

a. Correct save and restore behavior of Bluetooth Discoverable mode in the Mode Switch program (Restore input applet to Settings | Personal)

b. "Input" applet is now present under Settings | Personal.

c. Programs can be launched on boot from the SoMo File Store by creating a folder called "2577" and placing a program called Autorun.exe in the folder.

d. Added the WiFi Logging application, found as a standalone program in the Socket Addons folder. Can be executed directly from e-WFC UI. (WiFiLogging utility added to SocketAddOns)

e. The Language selection and backup programs under Getting Started (added to the SoMo in Production) now includes options for backing up and flashing English.

5) **Updated SocketScan 10 to Build 10151. New features include:**

   a. On-screen pairing for 7Ci/7Di

   b. Support for 7Di and 7DiRx

   c. Brightness control link for on screen barcodes

   d. Additional error detection when opening COM ports

6) **Includes the Windows Embedded Handheld 6.5 Adaptation Kit Update (AKU) 6.5.3.12.16 and 6.5.3.12.17 from Microsoft, which resolves or implements the following issues:**

   a. New EnableAutoLock registry entry supports locking a device without a password.

   b. Unlock text for a locked device has been localized.

   c. Updated logic to prevent grid lines from appearing during a Remote Desktop Mobile session.

   d. Corrected possible access violation issue due to invalid heap pointers.

   e. Corrected a write access violation in Mshtml.dll.

   f. Corrected a malicious script vulnerability in Internet Explorer.

   g. Corrected remote code execution vulnerabilities in Internet Explorer.

   h. Additional Russian cities added to time zone list.

   i. Support for registry entry to specify Power Manager policy queue length.

   j. Updated documentation for CDMA voice mail registry settings.

   k. Updated documentation for CM_GPRSEntries Configuration Service Provider.

   l. Corrected delay seen when switching lock methods

   m. Updated logic for lock screen behavior when powering on a device using AutoLock

   n. Updated logic for retrieving network status on a device using AutoLock

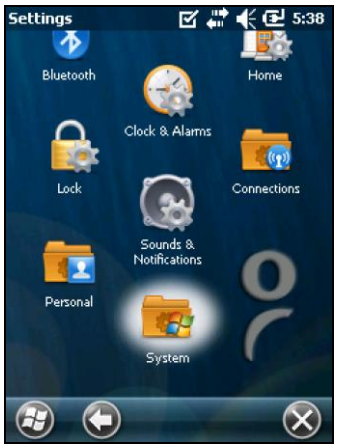
   o. Changes to daylight saving time in select time zones

To download the latest Service Pack (SP), please log into your Support account at http://support.socketmobile.com/ and click on the green arrow .

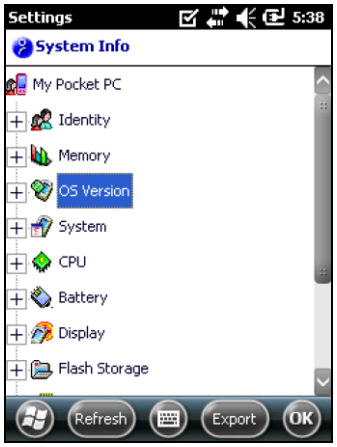
To check the SP version on your unit, see instructions below.

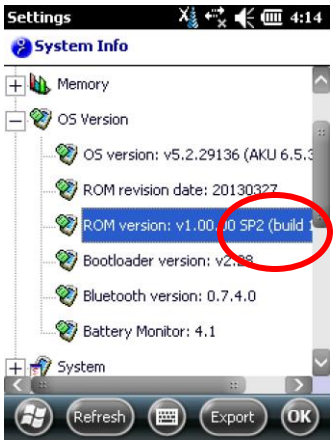
Check the SP Version of Your Unit.

From the Start screen, tap on **Settings | System | System Info.**



Tap on **OS Version** to view information.





Service Pack version = SP2

If you need to update your SoMo with the latest Service Pack, follow the instructions for installation below.

Installation Guide:

WARNING: You will lose all data files and applications during the upgrade process!

STEP 1: Power the Device

Socket highly recommends that you plug the SoMo 655 into an external power source using the charging cable/cradle. Alternatively, make sure the SoMo battery is adequately charged.

STEP 2: Back up Data on the Device

If you have any data on the SoMo 655, please back it up to an external location before you run the update.

STEP 3: Transfer Files using a Memory Card

IMPORTANT: It is not recommended you transfer files using ActiveSync or the Windows Mobile Device Center!

The directory SOMO655 containing the ROM image files must be moved to the SoMo 655 with a microSD or CF memory card that is formatted in FAT12 or FAT16. Make sure your memory card has at least 40 MB of free space.

Most higher-capacity cards are formatted by default in FAT32, which is not supported. SDHC cards are not supported in Windows Embedded Handheld.

If you want to reflash from a CF card, make sure you do not have a microSD card in the microSD slot.

1. On your PC, use **My Computer** or **Windows Explorer** to locate the directory **SOMO655**, which contains the upgrade files.
2. Copy the SOMO655 directory to the root of your memory card.

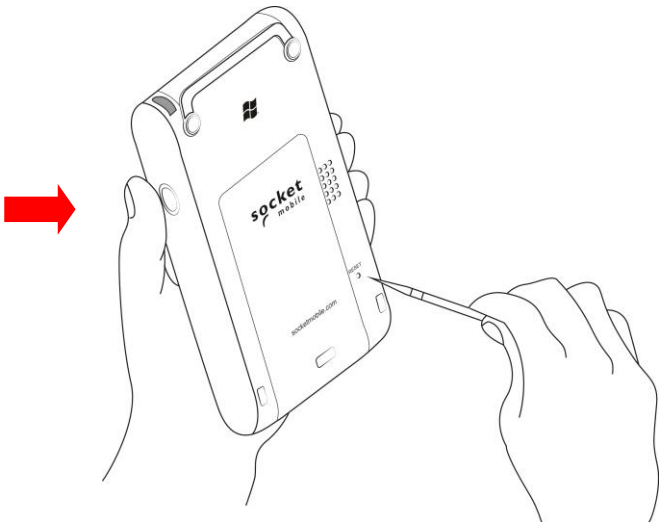
IMPORTANT: Copy the SOMO655 directory to the root of the memory card! DO NOT change the name of the folder!

Good Example: F:/SOMO655 **Bad Example: F:/Socket/SOMO655** **Bad Example:**

3. Insert the memory card into the device.

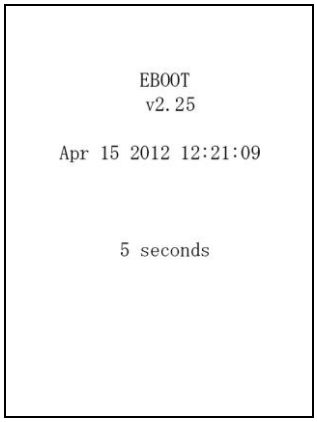
STEP 4: Install the Files

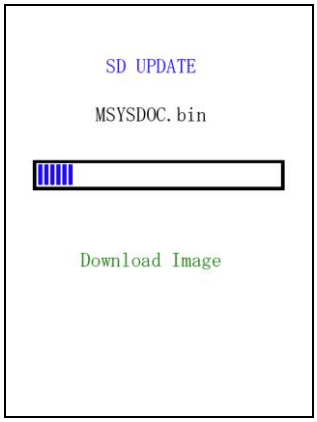
4. Press and hold the **Right Programmable Application** button on your SoMo 655.
5. While holding the button, use the stylus to gently press the **Reset** button on the back of your SoMo 655. Keep holding the **Right Programmable Application** button.



6. An EBOOT screen will appear with a timer, counting down from 5 seconds.

IMPORTANT: Keep holding the Right programmable application button until the timer reaches 0 seconds! Otherwise the installation will be aborted.





7. The SoMo 655 will begin to download and update the ROM image.
8. After the installation reports, **"Update completed!"** the Socket splash screen will appear for about 30 seconds then disappear.

Socket Splash

9. The Windows Embedded Handheld splash screen will appear for about 30 seconds.
10. The Windows Welcome wizard will prompt you to set up Windows Mobile. Follow the instructions on your screen.
11. After setting up Windows Embedded Handheld, the Today screen will appear, and the SoMo 655 will be ready to use.

Today

Enhanced Wi-Fi Companion Advanced Features

The features described in this appendix are for ADVANCED USERS ONLY.

For software setup instructions, please refer to Chapter 2.

For basic connection instructions, please refer to Chapter 4.

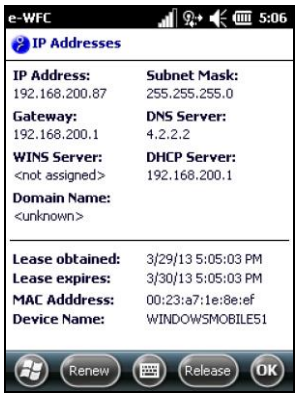
View IP Addresses

You can only view IP address data if the SoMo is actively connected to a WLAN network.

12. In the main screen of e-WFC, tap on the device icon. In the pop-up menu, tap **IP Addresses**.

The IP Addresses screen will appear.

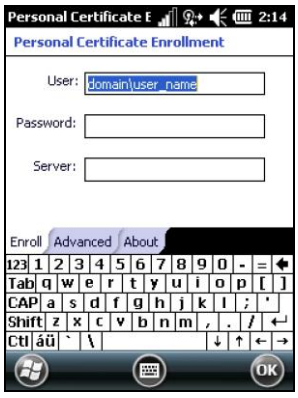
If your network uses DHCP, the **Renew** and **Release** functions will be enabled. Tap **Renew** to get a new IP address and/or update related lease data. Tap **Release** to release the IP address from the DHCP server.



Enroll Certificate

13. In the main screen of e-WFC, tap **Menu | Certificates | Enroll**.

Use the Personal Certificate Enrollment utility to install a personal certificate for 802.1x networks running EAP-TLS authentication.



Manage Certificates

14. In the main screen of e-WFC, tap **Menu | Certificates | Certificates**.

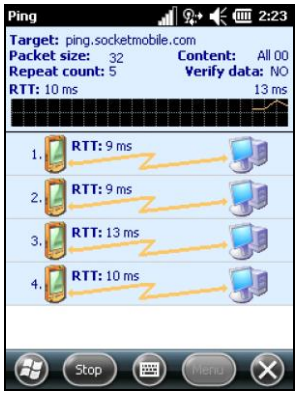
Use the utility to manage your root, personal and intermediate authentication certificates. To view a certificate, tap and hold the stylus on a certificate in the list. In the pop-up menu, tap **View**.

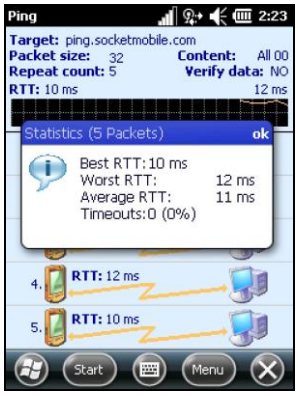
Trace Route

15. In the main screen of e-WFC, tap **Menu | Trace Route**.
16. Tap **Menu | Configure**. Enter the appropriate settings and tap **OK**.
17. Tap **Start**. Tap **Stop** to end the trace at any time, or let the trace run until complete. A prompt will report the statistics. Tap **ok**. To view the full host name of any of the hops, tap on the hop in the list.

Ping

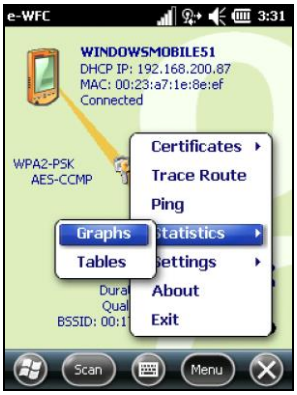
18. In the main screen of e-WFC, tap **Menu | Ping**.
19. Tap **Menu | Configure**. Enter the appropriate settings and tap **OK**.
20. Tap **Start**. To end the test, tap **Stop**. A prompt will report the statistics. Tap **ok**.

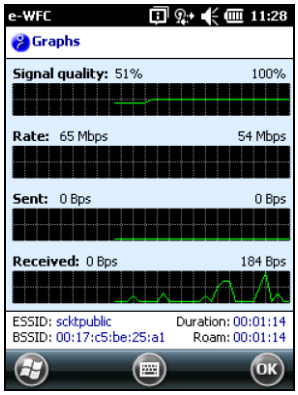


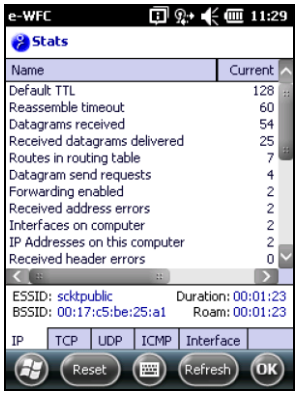


Statistical Graphs and Tables

21. In the main screen of e-WFC, tap **Menu | Statistics**.
22. In the pop-up menu, tap **Graphs** to view scrolling line graphs of the signal quality, rate, and sent and received data rates. Alternatively, tap **Tables** to view tables of information about the current connection. Tap on the tabs and scroll to view all the data.







Manage Profiles

The Manage Profiles screen displays the configured networks (i.e., profiles) and allows you to rank the networks in order of priority for connection attempts.

23. In the main screen of e-WFC, tap and hold the stylus on the radio tower icon. In the pop-up menu, tap **Manage Profiles**. Alternatively, tap **Menu | Settings | Manage Profiles**.

A list of network profiles will appear. To configure a new network profile, tap **New** and follow the Configure Wireless Network wizard. To search for available networks, tap **Scan**.

Tap and hold the stylus on any profile in the list to reveal a pop-up menu that enables you to quickly connect to, edit or delete the selected profile. If multiple profiles are listed, you can also set their order of priority by moving profiles up or down in the list. The SoMo will try to connect to the #1 ranked network, then #2 etc. until a connection is made.

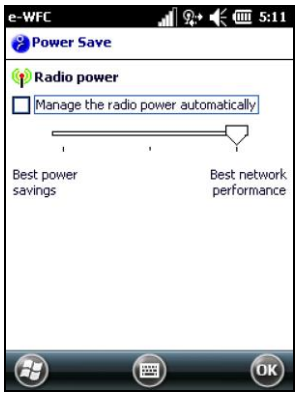
Profile Icons

	Current connection. This icon appears only when multiple profiles are listed.
	Signal strength of strongest AP (access point)/ad hoc radio
	WEP encryption, WPA (PSK), WPA (TKIP), WPA2 or 802.1x
	No encryption
	Priority ranking.
	Profile saved
	802.11b, 802.11g, 802.11n

Power Save

24. In the main screen of e-WFC, tap **Menu | Settings | Power Save**.

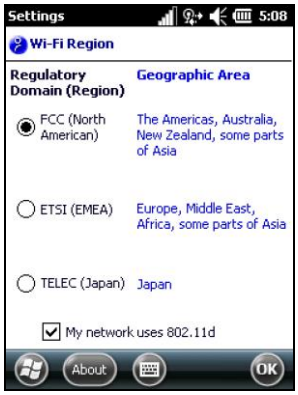
For automatic power management, check the box **Manage the radio power automatically**. This will enable best performance when charging and best power savings when running on battery power. Alternatively, uncheck the box and use the slider to manually choose your power setting. Tap **OK**.



Wi-Fi Region

25. In the main screen of e-WFC, tap **Menu | Settings | Wi-Fi Region**.
26. Select your region. If your network uses 802.11d, check the box at the bottom of the screen. Tap **OK**.

If your Wi-Fi environment supports multiple hidden networks (i.e., access points that don't broadcast their SSID, make sure to uncheck the box My network uses 802.11d.

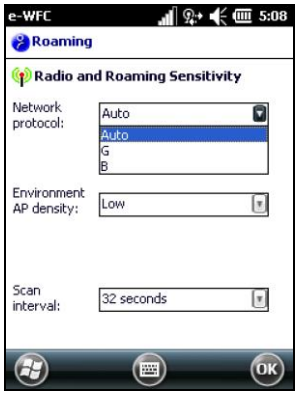


Roaming

27. In the main screen of e-WFC, tap **Menu | Settings | Roaming**.

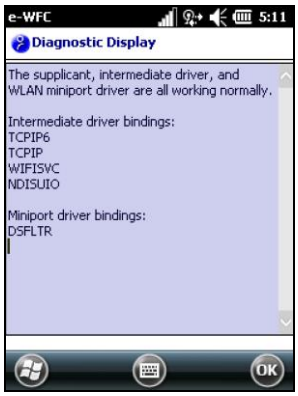
Enter the appropriate settings and tap **OK**.

1. **Network protocol:** Select **Auto** for the software to automatically choose the appropriate mode, select **G** for 802.11g or select **B** for 802.11b.
2. **Environment AP density**: Select the relative density of access points in your environment to adjust how aggressively the SoMo will roam from one access point to another.



Diagnostics

In the main screen of e-WFC, tap **Menu | Settings | Diagnostics**. The binding information is for Socket Mobile technical support only and not for use by the end user.



Logging

In the main screen of e-WFC, tap **Menu | Settings | Logging**. The log files can be sent to Socket Mobile technical support to troubleshoot connection issues.